

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.05.2014
Date of Reporting : 22.05.2014

I. Regional Availability/Demand:

Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
38284	2460	40744	50.05	36870	2151	39021	49.91	883.0	3.92

* Half hourly (two 15 minutes block—one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

UI [OD:(+ve), UD: (-ve)]

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	35.34	15.10		50.44	70.24	69.82	-0.42	120.25	0.48
Haryana	49.02	0.16		49.18	86.02	86.47	0.45	135.65	0.50
Rajasthan	122.63	0.00	3.35	125.97	51.42	53.51	2.09	179.49	0.45
Delhi	20.93			20.93	73.50	73.52	0.01	94.45	0.06
UP	126.68	10.04	2.40	139.12	118.10	120.92	2.81	260.04	0.00
Uttarakhand		13.56		13.56	21.88	22.21	0.33	35.76	0.74
HP		17.54		17.54	7.22	7.43	0.20	24.96	0.00
J & K		10.51	0.00	10.51	16.87	16.75	-0.12	27.26	1.70
Chandigarh				0.00	4.49	5.14	0.65	5.14	0.00
Total	354.60	66.90	5.75	427.25	449.74	455.76	6.02	883.00	3.92

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	5578	0	-77	98	4940	0	-22	98	6.23	
Haryana	6330	0	-148	292	5638	71	-19	89	4.54	
Rajasthan	7173	0	-86	-126	7255	0	82	-298	-1.71	
Delhi	4102	0	-62	125	3643	0	-81	138	2.58	
UP	10609	2285	-263	954	11858	2080	270	1812	29.30	
Uttarakhand	1655	75	95	338	1470	0	77	431	10.14	
HP	1056	0	-71	-860	863	0	-9	-619	-14.93	
J&K	1546	100	91	-422	1026	0	-110	-546	-11.16	
Chandigarh	235	0	13	0	177	0	17	0	0.24	
Total	38284	2460	-508	400	36870	2151	205	1106	25.22	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI	
								Net MU	Net MU
A. NTPC									
Singrauli STPS	2000	1694	1813	1861	41.18	1716	40.66		0.52
Rihand I STPS	1000	800	830	909	19.55	815	19.04		0.51
Rihand II STPS	1000	682	801	649	16.50	687	16.27		0.22
Rihand III STPS	1000	720	826	929	16.78	699	17.07		-0.29
Dadri I STPS	840	813	872	715	17.60	733	18.12		-0.52
Dadri II STPS	980	980	993	795	21.39	891	21.98		-0.59
Unchahar I TPS	420	403	379	405	8.80	367	9.44		-0.64
Unchahar II TPS	420	392	377	424	8.68	362	9.00		-0.32
Unchahar III TPS	210	204	203	216	4.44	185	4.61		-0.17
ISTPP (Jhajjar)	1500	1000	632	941	16.04	668	16.38		-0.34
Dadri GPS	830	798	175	180	4.02	168	4.25		-0.23
Anta GPS	419	391	0	0	0.00	0	0.00		0.00
Auraiya GPS	663	421	143	145	3.30	137	3.33		-0.04
Dadri Solar	5	1	0	0	0.00	0	0.03		-0.03
Unchahar Solar	10	3	0	0	0.00	0	0.07		-0.07
Sub Total (A)	11297	9303	8044	8169	178	7428	180		-2
B. NPC									
NAPS	440	145	164	167	3.53	147	3.48		0.05
RAPS- B	440	402	447	448	9.68	403	9.65		0.03
RAPS- C	440	210	228	231	4.95	206	5.04		-0.09
Sub Total (B)	1320	757	839	846	18.15	756	18.17		-0.01
C. NHPC									
Chamera I HPS	540	535	540	540	9.38	391	9.30		0.08
Chamera II HPS	300	300	300	225	6.36	265	6.25		0.11
Chamera III HPS	231	229	235	145	3.94	164	3.85		0.09
Bairasui HPS	180	180	180	180	4.36	182	4.32		0.04
Salal-HPS	690	579	660	563	14.39	599	13.89		0.49
Tanakpur-HPS	94	37	36	37	0.97	40	0.90		0.07
Uri-HPS	480	475	473	475	11.50	479	11.40		0.10
Uri-II HPS	240	240	248	248	5.88	245	5.76		0.12
Dhauliganga-HPS	280	123	138	138	2.99	124	2.94		0.05
Dulhasti-HPS	390	387	407	409	9.51	396	9.30		0.21
Sewa-II HPS	120	122	130	130	3.08	128	2.93		0.15
Parbati 3	390	200	260	100	2.01	84	1.94		0.08
Sub Total ©	3935	3407	3607	3190	74	3099	73		2
D. SJVNL									
NJPC	1500	1605	1618	758	24.01	1001	23.96		0.05
Rampur HEP	206		206	196	3.11	130	2		0.81
Sub Total (D)	1706	1605	1824	954	27.13	1130	26.26		0.86
E. THDC									
Tehri HPS	1000	390	394	0	5.18	216	5.10		0.08
Koteshwar HPS	400	116	302	91	2.81	117	2.80		0.01
Sub Total (E)	1400	506	696	91	7.99	333	7.90		0.09
F. BBMB									
Bhakra HPS	1514	702	1318	481	17.15	715	16.85		0.30
Dehar HPS	990	491	660	420	12.40	517	11.80		0.61
Pong HPS	396	80	309	0	2.04	85	1.91		0.13
Sub Total (F)	2900	1273	2287	901	31.59	1316	30.56		1.03
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	105	94	1.72	72	1.68		0.04
KWHEP HPS(IPP)	1000	0	522	500	12.77	532	14.36		-1.59
Malana Stg-II HPS	100	0	103	0	0.82	34	0.77		0.05
Shree Cement TPS	300	0	279	288	6.91	288	6.89		0.03
Budhil HPS(IPP)	70	0	68	68	1.14	47	1.31		-0.17
Sub Total (G)	1662	0	1077	950	23.36	973	25.01		-1.65
H. Total Regional Entities (A-G)	24221	16852	18374	15101	360.88	15037	360.92		-0.05

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)
Punjab	Guru Gobind Singh TPS (Ropar)	1260	1050	1050	23	955
	Guru Nanak Dev TPS(Bhatinda)	440	215	120	2	102
	Guru Hargobind Singh TPS(L.mbt)	920	746	464	10	416
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	0	0	0
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2011	1634	35	1472
	Total Hydro	1148	687	701	15.10	629
Total Punjab	5128	2698	2335	50.44	2102	
Haryana	Panipat TPS	1367	238	233	5.16	215
	DCRTPP (Yamuna nagar)	600	553	249	11.01	459
	Faridabad GPS (NTPC)	432	376	341	8.62	359
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1108	1112	24.23	1010
	Thermal (Total)	4944	2275	1935	49	2043
	Total Hydro	62	7	9	0.16	7
	Total Haryana	5006	2282	1944	49.18	2049
	Rajasthan	kota TPS	1240	671	900	17.24
suratgarh TPS		1500	1348	1349	31.72	1322
Chabra TPS		750	432	430	10.29	429
Dholpur GPS		330	129	133	3.20	134
Ramgarh GPS		221	122	89	1.70	71
RAPS A (NPC)		300	201	206	4.04	168
Barsingsar (NLC)		250	151	154	3.84	160
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	964	836	21.78	907
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1152	1165	28.83	1201
Thermal (Total)		7976	5170	5262	123	5109
Total Hydro		550	0	0	0.00	0
Wind power		2191	27	130	1.89	79
Biomass		91	30	30	0.73	30
Solar		201	0	0	0.73	30
Renewable/Others (Total)		2483	57	160	3.35	140
Total Rajasthan		11009	5227	5422	125.97	5249
UP	Anpara TPS	1630	1183	1419	31.60	1317
	Obra TPS	1288	361	360	8.40	350
	Paricha TPS	1140	560	541	12.90	538
	Panki TPS	210	149	146	4.10	171
	Harduaganj TPS	665	131	204	4.10	171
	Tanda TPS (NTPC)	440	375	383	9.26	386
	Roza TPS (IPP)	1200	1122	1116	26.78	1116
	Anpara-C (IPP)	1200	847	860	20.44	852
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	322	9.11	379
	Thermal (Total)	8223	5129	5351	127	5279
	Vishnuparyag HPS (IPP)	400	207	198	4.73	197
	Other Hydro	527	241	241	5.31	221
	Cogeneration	981	100	100	2.40	100
	Total UP	10131	5677	5890	139.12	5600
	Uttarakhand	Total Hydro	1303	830	496	13.56
Total Uttarakhand		1303	830	496	13.56	565
Delhi	Rajghat TPS	135	107	110	2.59	108
	Delhi Gas Turbine	282	105	109	2.58	108
	Pragati Gas Turbine	330	136	139	3.35	140
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	585	570	12.41	517
	Thermal (Total)	2917	933	928	20.93	872
	Total Delhi	2917	933	928	20.93	872
HP	Baspa HPS (IPP)	300	86	153	3.51	146
	Malana HPS (IPP)	86	86	0	0.92	39
	Other Hydro	728	532	545	13.10	546
	Total HP	1114	704	698	17.54	731
J & K	Baglihar HPS (IPP)	450	443	441	10.51	438
	Other Hydro/IPP	436	0	0	0.00	0
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	443	441	10.51	438
Total State Control Area Generation		37702	18794	18154	427.25	17605
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4435	5614	121.30	5054
Total Regional Availability(Gross)		61923	41603	38869	909.43	37696

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9144	5730	156.41	6517
State Control Area Hydro	5589	2912	2586	66.90	2590
Total Regional Hydro	16823	12056	8316	223.30	9107

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	150	250	250	0	5.85	0.00	5.85
Gwalior-Agra (D/C)	1826	2266	2266	0	42.22	0.00	42.22
Zerda-Kankroli	-95	-68	0	232	0.00	1.85	-1.85
Zerda-Bhinmal	-74	-26	35	204	0.00	1.97	-1.97
Malanpur-Auraiya	-38	-17	0	57	0.00	0.61	-0.61
Badod-Kota/Morak	-15	-77	0	90	0.00	1.24	-1.24
Mundra-Mohindergarh(HVDC)	2003	1998	2005	0	48.32	0.00	48.32
Sub Total WR	3757	4326			96.39	5.67	90.71
Pusauli Bypass	400	400	400	0	9.57	0.00	9.57
MZP- GKP (D/C)	20	260	368	158	4.95	0.00	4.95
Patna-Balia(D/C)	255	345	520	0	8.77	0.00	8.77
B Sharif-Balia (D/C)	163	248	398	0	6.01	0.00	6.01
Pusauli-Balia	-62	-50	0	88	0.00	0.95	-0.95
Gaya-Fatehpur (765 Kv)	-134	-50	42	257	0.00	0.98	-0.98
Pusauli-Sahupuri	154	164	189	0	3.49	0.00	3.49
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-118	-29	131	278	0.00	0.28	-0.28
Sub Total ER	678	1288			32.79	2.20	30.59
Total IR Exch	4435	5614			129.18	7.88	121.30

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
31.40	0.29	31.69	4.09	-0.21	-3.39	4.81	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
32.40	72.56	104.96	30.59	90.71	121.30	-1.81	18.16	16.34

VI. Frequency Profile <----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	>50.10	>50.20	>50.50
0.00	0.52	8.19	28.07	73.02	60.79	3.24	3.58	0.34	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.23	18.32	49.65	22.09	49.94	0.12	0.09	50.20	49.84

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	408	19:05	401	02:56	0.0	0.0	0.0	0.0
Gorakhpur	400	438	18:01	414	02:08	0.0	0.0	85.8	25.0
Bareilly	400	415	06:46	395	22:07	0.0	0.0	0.0	0.0
Kanpur	400	418	06:46	400	22:08	0.0	0.0	0.0	0.0
Dadri	400	414	06:01	397	14:17	0.0	0.0	0.0	0.0
Ballabgarh	400	423	06:01	403	22:11	0.0	0.0	5.2	0.0
Bawana	400	416	06:01	398	22:32	0.0	0.0	0.0	0.0
Bassi	400	425	04:07	400	22:29	0.0	0.0	16.5	0.0
Hissar	400	409	06:01	388	22:40	0.0	2.3	0.0	0.0
Moga	400	410	06:01	392	22:28	3.0	3.0	0.0	0.0
Abdullapur	400	417	06:01	400	22:08	0.0	0.0	0.0	0.0
Nalagarh	400	415	05:33	390	14:14	0.0	0.0	0.0	0.0
Kishenpur	400	411	05:32	397	19:43	0.0	0.0	0.0	0.0
Wagoora	400	409	03:30	386	20:07	0.0	4.1	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	774	06:46	736	22:09	0.0	3.2	0.0	0.0
Balia	765	785	06:46	746	02:10	0.0	0.0	0.0	0.0
Moga	765	778	06:01	744	22:33	0.0	0.0	0.0	0.0
Agra	765	791	13:05	750	22:10	0.0	0.0	0.0	0.0
Bhiwani	765	792	06:02	756	22:39	0.0	0.0	0.0	0.0
Unnao	765	763	06:46	735	00:08	0.0	18.3	0.0	0.0

IX. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	480.26	468.02	475.12	356.29	445.54	595.42
Pong	426.72	384.05	403.33	296.79	399.38	203.01	77.90	56.83
Tehri	829.79	740.04	745.75	29.00	NA	NA	114.04	208.00
Koteshwar	612.50	598.50	610.55	4.95	604.70	2.15	208.00	188.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	206.25	230.88
Rihand	268.22	252.98	258.07	205.10	256.79	149.00	NA	NA
RPS	352.80	343.81	348.06	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.80	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.64	144.00	506.65	144.00	224.47	197.51

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 21.05.2014 :
Normal weather.

XIII. Synchronisation of new generating units :
0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 21.05.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER